

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1944988	(actuator\$1 (coil near (iron adj core)) inject\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 07:18
S2	129704	S1 same (switch switches)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 09:18
S3	147932	S1 same (current (regulate\$3 near current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 09:18
S4	1864	S3 same (pwm (pulse adj width adj modulation) (pulse adj generator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 09:24
S5	438	S4 same ((control adj circuit) controller)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 09:24
S6	2	S5 same (current near measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 09:25

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S7	107	("2832073" "3157853" "3220121" "3497668" "3517446" "3902687" "3903614" "3919691" "3923166" "4125800" "4160508" "4236325" "4382217" "4398889" "4477043" "4513235" "4581491" "4599070" "4632341" "4708656" "4713007" "4758692" "4800721" "4825157" "4891764" "4930770" "4933584" "4934694" "4949119" "4961038" "5019761" "5022407" "5035242" "5038089" "5044956" "5076517" "5078152" "5103404" "5142931" "5146566" "5184319" "5185561" "5186685" "5193963" "5194786" "5212473" "5223776" "5240417" "5264768" "5271290" "5275174" "5276621" "5299810" "5309140" "5327790" "5334027" "5466213" "5513100" "5547382" "5576727" "5589854" "5625576" "5629594" "5643087" "5656901" "5666138" "5687080" "5691898" "5694013" "5709219" "5734373" "5739811" "5742278" "5766016" "5785630" "5790108" "5802353" "5805140" "5825808" "5889670" "5907487" "5959613" "5990869" "5999168" "6001014" "6004134" "6020875" "6020876" "6050718" "6100874" "6104382" "6111577" "6154201" "6191796" "6219033" "6219034" "6336364" "6348911" "6422941").PN. OR ("6762745"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 09:30
S8	14	actuator near current near regulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 09:32
S9	6	("4754441" "5249117" "5281875" "5693154" "5739601").PN. OR ("6246132").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 09:40
S10	1	("5924703").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 09:41

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S11	15	("4787650" "4957309" "5004264" "5024459" "5064032" "5078421" "5092625" "5142475" "5205385" "5285876" "5293969" "5361209").PN. OR ("5924703").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 10:39
S12	1304350	(valve (internal adj combustion adj engine)) (actuator\$1) (injector\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 10:41
S13	0	S12 same (((free\$1wheeling) (free adj wheeling)) adj diode)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 10:43
S14	124	S12 same ((free\$1wheeling adj diode\$1) (free adj wheeling adj diode))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 11:09
S15	193440	S12 same (switch)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 11:12
S16	190	S15 same (current adj measur\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 11:12
S17	3	("4347544" "4680667" "6344980").PN. OR ("6498468").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 11:23
S18	3	("4347544" "4680667" "6344980").PN. OR ("6498468").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 12:05
S19	344360	actuator\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 12:05
S20	64924	S19 same switch'	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 12:05
S21	0	S20 same (current near measur\$3) same (free adj wheeling adj diode)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 12:06
S22	66	S20 same (current near measur\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 12:06
S23	4	("4628885" "5309314" "5404262").PN. OR ("6567255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 12:13
S24	13	("4327394" "4453194" "4453652" "4661766" "4667117").PN. OR ("5113307").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/19 13:53

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S25	523933	actuator (electromagnetic adj actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 13:54
S26	137824	S25 and (switch transistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 13:54
S27	1608	S26 and (current near measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 13:55
S28	882	S26 and (current near regulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 13:55
S29	140	S28 and (PWM (pulse adj width adj modulation))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 14:58
S30	11	S29 and (dither)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 13:56
S31	16531	dither (dither adj function)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/19 15:05
S32	543	361/152.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 07:18

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S33	90	S32 and (actuator\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 08:31
S34	10	("4180026" "4314305" "4729056" "5267545" "5381297" "5469825" "5711280" "5717562" "5975057" "6031707").PN. OR ("6721158").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 07:32
S35	22	("4040397" "4338651" "4377144" "4452210" "4486703" "4605983" "4729056" "4774624" "4933805" "4978965" "5092302" "5267545" "5381297" "5469825" "5531198" "5717562").PN. OR ("6031707"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 07:36
S36	2	S33 and dither	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 08:31
S37	53	("1548232" "1623431" "2615466" "2649688" "2650609" "2668556" "2788800" "2813519" "2898936" "2930360" "2944564" "2959156" "2977984" "3017897" "3131608" "3266378" "3279743" "3308307" "3613717" "3686557" "3709257" "3800663" "3842857" "3870931" "3902402" "4074699" "4106522" "4150695" "4158162" "4161678").PN. OR ("4432033").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 08:37
S38	190	(dither dithering (dither adj function)) near (superimpose superimposing superimposed impos\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:38
S39	5	S38 near (solenoid solenoids actuator actuators injector injectors)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 08:42
S40	836	(dither dithering (dither adj function)) same (superimpose superimposing superimposed impos\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:38

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S41	20	S40 same (PWM (pulse adj width adj modulation))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:39
S42	19	S41 same (signal frequency)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:41
S43	590976	actuator actuators injector injectors solenoid\$	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:41
S44	3132	S43 and (dither dithering (dither adj function))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:01
S45	713	S44 and (PWM (pulse adj width))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:02
S46	318	S45 and (superimposed superimposing superimposed imposed impos\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:02
S47	316	S46 and (signal signals frequency (low\$1frequency))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:44
S48	313	S46 and (signal signals)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:44
S49	281	S48 and (frequency (low\$1frequency))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 09:44
S50	788	S43 same (dither dithering (dither adj function))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:01
S51	71	S50 same (PWM (pulse adj width))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:02
S52	11	S51 same (superimposed superimposing superimposed imposed impos\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:16
S53	1	(superimpos\$3 impos\$3) same (PWM (pulse adj width)) same (low\$1frequency) same (dither\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:46
S54	79	(dither\$3) same (add\$3 subtract\$3) same (PWM (pulse adj width))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 10:47

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S55	22	(US-20010050548-\$ or US-20040089259-\$ or US-20050201036-\$ or US-20030174005-\$).did. or (US-6246132-\$ or US-5914850-\$ or US-6762745-\$ or US-6567255-\$ or US-6498468-\$ or US-5249117-\$ or US-5113307-\$ or US-6344980-\$ or US-6721158-\$ or US-6031707-\$ or US-5975057-\$ or US-6249418-\$ or US-4432033-\$ or US-6016454-\$ or US-5924703-\$ or US-5079498-\$ or US-5432693-\$).did. or (KR-2004021184-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:18
S56	1	S55 and corrector	US-PGPUB; USPAT	OR	OFF	2006/04/20 14:15
S57	3	corrector near (dither\$3)	US-PGPUB; USPAT	OR	OFF	2006/04/20 14:16
S58	71	corrector same (dither\$3)	US-PGPUB; USPAT	OR	OFF	2006/04/20 14:17
S59	7	S58 and (actuator actuators injector injectors solenoid)	US-PGPUB; USPAT	OR	OFF	2006/04/20 14:40
S60	38498	computer same (flash adj memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 14:41
S61	232	S60 same (actuator actuators injector injectors solenoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:13
S62	4	S61 same (PWM (pulse adj width))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 14:42
S63	866	S60 same (switch transistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:14

EAST Search History

S64	1060315	(computer (computer adj program)) same (memory (memory adj device)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:15
S65	400028	(computer (computer adj program)) same (memory (memory adj device) (flash near memory))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:16
S66	4761	S65 same (actuator actuators injector injectors solenoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:17
S67	652	S66 same (transistor\$1 switch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:17
S68	11	S67 same (pwm (pulse adj width))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/20 15:17
S69	6	S55 and (computer memory)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:21
S70	0	S55 and (flash near memory)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:21
S71	0	S55 and (computer near memory)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:21
S72	1	S55 and (computer same memory)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:31
S73	14	S55 and (motor vehicle automobile combustion engine)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:32
S74	667261	actuator actuators injector injectors solenoid	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:33

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S75	35095	S74 same (transmission (transmission adj control))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:33
S76	26128	S75 and (motor vehicle (motor adj vehicle) automobile)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:34
S77	15648	S75 same (motor vehicle (motor adj vehicle) automobile)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:34
S78	7	S77 same (current (regulat\$3 near current))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 16:13
S79	1558	S77 same (current (regulat\$3 near current))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 15:35
S80	70	S79 same (pwm (pulse adj width))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 16:11
S81	26436	S74 same (memory (flash adj memory) (flash near memory))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 16:13
S82	4309	S81 same (computer (computer near program))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/20 16:13
S83	3	S82 same (current (regulat\$3 near current))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:09
S84	667261	actuator actuators injector injectors solenoid	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:51
S85	26436	S84 same (memory (flash adj memory) (flash near memory))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:53
S86	667261	actuator actuators injector injectors solenoid	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:10
S87	715	S86 same (current near regulat\$3)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:11
S88	19	S87 same (memory (flash near memory))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:11

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S89	23	(US-20050201036-\$ or US-20040089259-\$ or US-20030174005-\$ or US-20010050548-\$).did. or (US-6567255-\$ or US-6762745-\$ or US-6721158-\$ or US-6498468-\$ or US-6344980-\$ or US-6249418-\$ or US-5975057-\$ or US-6246132-\$ or US-6031707-\$ or US-6016454-\$ or US-5432693-\$ or US-5924703-\$ or US-5914850-\$ or US-4432033-\$ or US-5249117-\$ or US-5113307-\$ or US-5079498-\$ or US-6687555-\$). did. or (KR-2004021184-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:46
S90	3	S89 and (memory)	US-PGPUB; USPAT	OR	OFF	2006/04/21 07:49
S91	80093	(flash adj memory)	US-PGPUB; USPAT	OR	OFF	2006/04/21 07:50
S92	5207	S91 and (actuator actuators injector injectors solenoid)	US-PGPUB; USPAT	OR	OFF	2006/04/21 07:50
S93	4800	S92 and (computer CPU microprocessor)	US-PGPUB; USPAT	OR	OFF	2006/04/21 07:50
S94	33	S93 and (regulat\$3 near current)	US-PGPUB; USPAT	OR	OFF	2006/04/21 07:51
S95	9629	S85 same (cpu microprocessor computer)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:54
S96	355	S95 same (pwm (pulse adj width))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:54
S97	37	S96 same (transistor\$1 switch)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:53
S98	540	S84 same ((flash adj memory) (flash near memory))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:53
S99	349	S98 same (cpu microprocessor computer)	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:54
S100	5	S99 same (pwm (pulse adj width))	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/21 07:54
S101	432	361/152.ccls.	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:38
S102	5	S101 and dither	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:43
S103	967	361/152	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:43

EAST Search History

S10 4	15	S103 and dither	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:43
S10 5	10	S104 not S102	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:45
S10 6	373	361/153	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:45
S10 7	4	S106 and dither	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:46
S10 8	0	((actuator) and (resistor) and (switch transistor MOSFET) and (free\$1wheel\$3) and (PWM (pulse adj width adj modulat\$4)) and (dither)).clm.	US-PGPUB	OR	OFF	2006/11/30 13:48